

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER POR PATENTS PO Box (430 Alexandra, Virginia 22313-1450 www.opto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/523,774	02/07/2005	John G Harrison	00513.PIUS	5720
62755 LARRY D. JC	7590 12/27/201 HNSON	EXAMINER		
P.O. BOX 470	277	NI, SUHAN		
CELEBRATIO	DN, FL 34747		ART UNIT	PAPER NUMBER
			2614	
			MAIL DATE	DELIVERY MODE
			12/27/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/523,774 HARRISON, JOHN G Office Action Summary Examiner Art Unit

	Sunan NI	2614				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence ad	dress			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DV. Extensions of time may be available under the provisions of 37 OFR 1.15 after SIX (6) MCNTHS from the mailing date of this communication. Failure or leny within the act or extended position for reply will. by statute. Any reply received by the Office later than three months after the mailing earned pattern term adjustment. See 37 OFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE!	I. sely filed the mailing date of this co D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 27 Se	eptember 2010.					
2a) ☐ This action is FINAL . 2b) ☐ This	∑ This action is FINAL. 2b) This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-24 is/are pending in the application.						
4a) Of the above claim(s) 21-24 is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-20</u> is/are rejected.						
7) Claim(s) is/are objected to.						
Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correcting. The oath or declaration is objected to by the Ex						
Priority under 35 U.S.C. § 119						
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).				
 Certified copies of the priority documents 	s have been received.					
Certified copies of the priority documents	s have been received in Application	on No				
 Copies of the certified copies of the prior application from the International Bureau 	•	ed in this National	Stage			
* See the attached detailed Office action for a list	of the certified copies not receive	d.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				

S. Patent and Trademark Office PTOL-326 (Rev. 08-06)	Office Action Summary	Part of Paper No./Mail Date 20101220
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Falsent Drawling Row 3) Information Disclosure Statement(s) (PTO/SE Paper No(s)/Mail Date	iow (PTO-943) Pape	view Summary (PTO-413) er Nots/Whail Date. e of Informal Patent Application

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DETAILED ACTION

1. This communication is responsive to the response/amendment filed 09/27/2010.

Claim Rejections - 35 USC § 112, 1st Paragraph

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

2. Claims 1, 3, 5, 7, 11, 13, 15 and 17 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The claimed features or limitations are not clearly supported by specification as following:

Regarding claim 1, the limitation of "at least 50%" in line 2 is not clearly supported by specification, since it lacks of teaching how such limitation has been determined.

Regarding claim 3, the limitation of "between 60% to 90%" in line 2 is not clearly supported by specification, since it lacks of teaching how such limitation has been determined.

Regarding claim 5, the limitation of "between 1% and 40%" in line 2 is not clearly supported by specification, since it lacks of teaching how such limitation has been determined.

Regarding claim 7, the limitation of "between 1% and 10%" in line 2 is not clearly supported by specification, since it lacks of teaching how such limitation has been determined.

Regarding claim 11, the limitation of "at least 50%" in line 3 is not clearly supported by specification, since it lacks of teaching how such limitation has been determined.

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Regarding claim 13, the limitation of "between 60% to 90%" in line 2 is not clearly supported by specification, since it lacks of teaching how such limitation has been determined.

Regarding claim 15, the limitation of "between 1% and 40%" in line 2 is not clearly supported by specification, since it lacks of teaching how such limitation has been determined.

Regarding claim 17, the limitation of "between 1% and 10%" in line 2 is not clearly supported by specification, since it lacks of teaching how such limitation has been determined.

Claim Rejections - 35 USC § 112, 2nd Paragraph

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.

3. Claims 1, 3, 5, 7, 11, 13, 15 and 17 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 1, the limitation of "at least 50%" in line 2 is indefinite, since it is not clearly how such limitation has been determined.

Regarding claim 3, the limitation of "between 60% to 90%" in line 2 is indefinite, since it is not clearly how such limitation has been determined.

Regarding claim 5, the limitation of "between 1% and 40%" in line 2 is indefinite, since it is not clearly how such limitation has been determined.

Regarding claim 7, the limitation of "between 1% and 10%" in line 2 is indefinite, since it is not clearly how such limitation has been determined.

Regarding claim 11, the limitation of "at least 50%" in line 2 is indefinite, since it is not clearly how such limitation has been determined.

Regarding claim 13, the limitation of "between 60% to 90%" in line 2 is indefinite, since it is not clearly how such limitation has been determined.

Regarding claim 15, the limitation of "between 1% and 40%" in line 2 is indefinite, since it is not clearly how such limitation has been determined.

Regarding claim 17, the limitation of "between 1% and 10%" in line 2 is indefinite, since it is not clearly how such limitation has been determined.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Based on the best understanding of the claim language regarding the 112, 1st and 2nd paragraph rejection above in paragraph 3-4, claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Inamiya (U.S. Pat. 5.206.466).

Regarding claims 1 and 11, Inamiya disclose a speaker cone (1) comprising: a hemp fiber; a quantity of non-hemp paper pulp and binding material (col. 3, lines 7-24) as claimed. But Inamiya may not clearly teach the hemp fiber in a concentration at least 50% as claimed. Since Inamiya does teach that the composition/quantity of materials for the cone can directly effect the acoustic characteristics and performance of the speaker (col. 3, lines 33-39, 52-68 and col. 4, lines 22-42), and Inamiya also suggests optimizing the disclosed invention (col. 6, lines 17-23), it therefore would have been obvious to one having ordinary skill in the art at the time the invention was made to be motivated to provide suitable composition, for example the hemp fiber

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in a concentration at least 51.5%, for the cone of the speaker taught by Inamiya as an alternate choice, or designer's choice (may be guided by an experimental testing), in order to effectively design and manufacture a customized speaker with specific acoustic characteristics for certain application.

Regarding claims 2, 4, 6, 12, 14 and 16, Inamiya may not clearly teach all in details of the material as claimed, but Inamiya does not specially restrict to any material and also clearly suggests optimizing the disclosed invention (col. 6, lines 17-23). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to be motivated to provide suitable material (well known and commercially available) such as Manila hemp, for the cone of the speaker taught by Inamiya as an alternate choice, or designer's choice (may be guided by an experimental testing), in order to effectively design and manufacture a customized speaker with specific acoustic characteristics for certain application.

Regarding claims 3, 5, 7, 13, 15 and 17, Inamiya may not clearly teach all in details of the further composition of the material, Since Inamiya does teach that the composition/quantity of materials for the cone can directly effect the acoustic characteristics and performance of the speaker (col. 3, lines 33-39, 52-68 and col. 4, lines 22-42), and Inamiya also suggests to optimize the disclosed invention (col. 6, lines 17-23), it therefore would have been obvious to one having ordinary skill in the art at the time the invention was made to be motivated to provide suitable composition, for example the hemp fiber in a concentration between 60-65%, for the cone of the speaker taught by Inamiya as an alternate choice, or designer's choice (may be guided by an experimental testing), in order to effectively design and manufacture a customized speaker with specific acoustic characteristics for certain application.

Regarding claims 8-10 and 18-20, Inamiya may not clearly teach all in details of the material as claimed, but Inamiya does not specially restrict to any material and also clearly suggests optimizing the disclosed invention (col. 6, lines 17-23). Furthermore, providing suitable and commercially available material for a cone is very well known in the speaker art. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to be motivated to provide suitable material (well known and commercially available), such as water proof coating material, for the cone of the speaker taught by Inamiya as an alternate choice, or designer's choice, in order to make the speaker more durable, especially under high humidity environment.

Response to Amendment

 Applicant's arguments dated 09/27/2010 have been fully considered, but they are not deemed to be persuasive.

Regarding the rejection of claims 1, 3, 5, 7, 11, 13, 15 and 17 under 35 USC § 112, first/second paragraph, the applicant argues:

The specification states "In the **preferred** embodiment, the composition includes any proportion greater than 50% hemp fiber, e.g., approximately 80% hemp pulp, and 20% other material ...". The specification goes on to state "The resultant speaker cones have been found to have superior tone and sonic properties (e.g., no distortion or ghost notes) and increased durability (e.g., increased power handling capability) when compared to other known speaker cone constructions", and provides **numerous examples** of various compositions

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in the detailed description, with proportions corresponding to the limitations cited in the claims.

The examiner respectfully disagrees with the applicant. The applicant still fails to persuasively provide evidence (usually testing reports) for supporting the claimed limitations, such as "a hemp fiber in a concentration of at least 50%" being inventive.

Regarding the rejection of claims 1, 3, 5, 7, 11, 13, 15 and 17 under 35 USC § 103, the applicants argue no motivation to combine the references. It is not necessary that the references actually suggest, expressly or in so many words the changes or improvements that applicants have made. The test for combining references is what the references as whole would have suggested to one of ordinary skilled in the art. In re Sheckler, 168 USPQ 716 (CCPA 1971); In re Mlaughlin 170 USPQ 209 (CCPA 1971); In re Young 159 USPQ 715 (CCPA 1968).

Furthermore, since the applicant fails to persuasively provide evidence (usually testing reports) for supporting the claimed limitations, such as "a hemp fiber in a concentration of at least 50%" being inventive (see above), it clearly supports the motivation of the 103 rejection (see above) as been obvious to one having ordinary skill in the art at the time the invention was made to be motivated to provide suitable composition, for example the hemp fiber in a concentration at least 51.5%, for the cone of the speaker taught by Inamiya as an alternate choice or designer's choice (may be guided by an experimental testing), in order to effectively design and manufacture a customized speaker with specific acoustic characteristics for certain application.

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Conclusion

6. THIS ACTION IS MADE FINAL. See M.P.E.P. § 706.07(a). Applicant is reminded of

the extension of time policy as set forth in 37 C.F.R. § 1.136(a).

A SHORTENED STATUTORY PERIOD FOR RISPONSE TO THIS FINAL ACTION IS SET TO EXPIRE THREE MONTHS FROM THE DATE OF THIS ACTION. IN THE EVENT A FIRST RISPONSE IS FILED WITHIN TWO MONTHS FROM THE MALING DATE OF THIS FINAL ACTION AND THE ADVISORY ACTION IS NOT MALLED UNTIL AFFER THE END OF THE THEE FLOOR OF THE THEE MONTH SHORTENED STATUTORY PERIOD. THEN THE SHORTENED STATUTORY PERIOD. THEN THE SHORTENED STATUTORY PERIOD THEN THE MONTH SHORTENED STATUTORY PERIOD. THEN THE SHORTENED STATUTORY PERIOD THEN THE MONTH SHORTENED STATUTORY PERIOD THEN THE MONTH SHORTENED STATUTORY PERIOD WILL EXPIRE ON THE DATE THE ADVISORY ACTION IS MAILED, AND ANY EXTRENSION FEE PERSON TO STATUTORY PERIOD THE MAILING

DATE OF THE ADVISORY ACTION. IN NO EVENT WILL THE STATUTORY PERIOD FOR RESPONSE EXPIRE LATER THAN SIX MONTHS FROM THE DATE OF THIS FINAL ACTION.

7. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Suhan Ni whose telephone number is (571)-272-7505, and the

number for fax machine is (571)-273-7505. The examiner can normally be reached on Monday

through Thursday from 10:00 am to 8:00 pm. If it is necessary, the examiner's supervisor, Curtis

A. Kuntz, can be reached at (571)-272-7499.

8. Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov/. Should you have questions on access to the Private

PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

9. Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the group receptionist whose telephone number is (571)-272-2600, or

please see http://www.uspto.gov/web/info/2600.